

1. IDENTIFICATION OF THE SUBSTANCE / PREPARATION AND OF THE COMPANY / UNDERTAKING

Product identifier:

Trade name: Methyl Di Proxitol (DPM)
CAS Number: 34590-94-8
EC number: 252-104-2
Registration number: 01-2119450011-60

Relevant identified uses of the substance or mixture and uses advised against:

Manufacture of substance
Formulation and re-packing of substance
Intermediate
Coatings
Cleaning agent
Metal working fluid
Laboratories
Agrochemical
Other consumer

Application of the substance / the preparation: Solvent

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2. HAZARDS IDENTIFICATION

Classification of the substance or mixture:

Classification according to Directive 67/548/EEC or Directive 1999/45/EC Not applicable.

Label elements:

Labelling according to EU guidelines: The substance is not subject to classification according to EU lists and other sources of literature known to us. Observe the general safety regulations when handling chemicals.

Other hazards: Not regarded as a health or environmental hazard under current legislation.

Results of PBT and vPvB assessment:

PBT: Not applicable.

vPvB: Not applicable.

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3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical characterization: Substances:

CAS No. Description: 34590-94-8 (2-methoxymethylethoxy) propanol

Identification number(s):

EC number: 252-104-2

4. FIRST AID MEASURES

Description of first aid measures:

General information: No special measures required.

After inhalation: Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist.

In case of unconsciousness place patient stably in side position for transportation.

After skin contact: Immediately wash with water and soap and rinse thoroughly. Remove contaminated clothing. If skin irritation continues, consult a doctor.

After eye contact: Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

After swallowing: Do not induce vomiting; rinse mouth with water, call for medical help immediately.

Information for doctor:

Most important symptoms and effects, both acute and delayed: No further relevant information available.

Indication of any immediate medical attention and special treatment needed: No further relevant information available.

5. FIRE-FIGHTING MEASURES

Extinguishing media:

Suitable extinguishing agents: CO₂, powder or water spray. Fight larger fires with aqueous film forming foam (AFFF). Cool containers with water spray.

For safety reasons unsuitable extinguishing agents: Water with full jet.

Special hazards arising from the substance or mixture: No further relevant information available.

Advice for firefighters:

Protective equipment: Respiratory protective device.

Additional information: Cool endangered receptacles with water spray.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures:

Wear protective equipment. Keep unprotected persons away.

Environmental precautions: Do not allow to enter sewers/ surface or ground water.

Methods and material for containment and cleaning up:

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

Dispose contaminated material as waste according to item 13.

Reference to other sections: No dangerous substances are released.

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7. HANDLING AND STORAGE

Handling:

Precautions for safe handling: Ensure good ventilation/exhaustion at the workplace.
Store in cool, dry place in tightly closed receptacles.
Use solvent-proof equipment.

Information about fire - and explosion protection:

Do not spray onto a naked flame, hot surfaces, electrical switchgear, live/battery connected electrics, or near to any potential sources of ignition.

Conditions for safe storage, including any incompatibilities:

Storage:

Requirements to be met by storerooms and receptacles: Provide solvent resistant, sealed floor.

Information about storage in one common storage facility: Not required.

Further information about storage conditions: None.

Specific end use(s): No further relevant information available.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Additional information about design of technical facilities: No further data; see item 7.

Control parameters:

Ingredients with limit values that require monitoring at the workplace:

34590-94-8 (2-methoxymethylethoxy) propanol

WEL: Long-term value: 308 mg/m³, 50 ppm
Sk

Additional information: The lists valid during the making were used as basis.

Exposure controls:

Personal protective equipment:

General protective and hygienic measures: Avoid alcohol consumption while working with the product.

Respiratory protection: Use suitable respiratory protective device in case of insufficient ventilation.

Protection of hands: The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.
Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation.

Material of gloves: The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.

Penetration time of glove material: The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

Eye protection: Goggles recommended during refilling.

Body protection: Protective work clothing.

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9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties:

General Information:

Appearance:

Form: Liquid

Colour: Colourless

Odour: Characteristic

Change in condition:

Melting point/Melting range: -83°C

Boiling point/Boiling range: 190°C

Flash point: 75°C

Ignition temperature: 270°C

Danger of explosion: Product does not present an explosion hazard.

Explosion limits:

Lower: 1.1 Vol %

Upper: 14 Vol %

Vapour pressure at 20°C: 0.4 hPa

Density at 20°C: 0.951 g/cm³

Solubility in / Miscibility with water: Fully miscible.

Viscosity:

Dynamic at 20°C: 4.55 mPas

Other information: No further relevant information available.

10. STABILITY AND REACTIVITY

Reactivity:

Chemical stability:

Thermal decomposition / conditions to be avoided:

No decomposition if used according to specifications and industry good practice.

To avoid thermal decomposition do not overheat.

Possibility of hazardous reactions: No dangerous reactions known.

Conditions to avoid: No further relevant information available.

Incompatible materials: Acids, strong oxidising agents, strong alkalis.

Hazardous decomposition products: Carbon monoxide if incomplete combustion.

11. TOXICOLOGICAL INFORMATION

Information on toxicological effects:

Acute toxicity:

LD/LC50 values relevant for classification:

Oral LD50 5135 mg/kg (rat)

Dermal LD50 >19000 mg/kg (rabbit)

Primary irritant effect:

On the skin: Prolonged contact may result in skin irritation.

On the eye: Persistent exposure may cause irritation.

Sensitization: No sensitizing effects known.

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Other information (about experimental toxicology): High concentrations will irritate mucous membrane.

Additional toxicological information: When used and handled according to specifications, the product does not have any harmful effects to our experience and the information provided to us.

The substance is not subject to classification according to the latest version of the EU lists.

12. ECOLOGICAL INFORMATION

Toxicity

Aquatic toxicity: No further relevant information available.

Persistence and degradability: This product is biodegradable

Behaviour in environmental systems:

Bioaccumulative potential: No further relevant information available.

Mobility in soil: No further relevant information available.

Ecotoxicological effects:

Remark: LC50 96hrs fish mg/kg >10,000

EC50 48 hrs Daphnia mg/l 1919

IC50 72 algae mg/l >100

Additional ecological information:

General notes: Water hazard class 1 (German Regulation) (Self-assessment): Slightly hazardous for water.

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

Results of PBT and vPvB assessment:

PBT: Not applicable.

vPvB: Not applicable.

Other adverse effects No further relevant information available.

13. DISPOSAL CONSIDERATIONS

Waste treatment methods:

Recommendation: Smaller quantities can be disposed of with household waste.

Uncleaned packaging:

Recommended cleansing agents: Water, if necessary together with cleansing agents.

14. TRANSPORT INFORMATION

UN-Number

ADR, ADN, IMDG, IATA: Void

UN proper shipping name:

ADR, ADN, IMDG, IATA: Void

Transport hazard class (es):

ADR, ADN, IMDG, IATA:

Class: Void

[cont...]

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Packing group:

ADR, IMDG, IATA: Void

Special precautions for user: Not applicable.

Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code: Not applicable.

15. REGULATORY INFORMATION

Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

Note: The regulatory information given above only indicates the principal regulations specifically applicable to the product described in the safety data sheet. The user's attention is drawn to the possible existence of additional provisions which complete these regulations. Refer to all applicable national, international and local regulations or provisions.

16. OTHER INFORMATION

Legal disclaimer: The information contained in this SDS does not constitute a risk assessment, and should not replace the user's own assessment of risks as required by other health and safety legislation. This advice is given by Nexchem Ltd who accept no legal liability for it except otherwise provided by law. The information contained herein is based on the present state of our knowledge and is intended to describe our products from the point of view of safety requirements. It should not therefore be construed as guaranteeing specific properties.